

# Matteo LOTITO

## PERSONAL INFORMATION:

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NAME Matteo Lotito  
DATE OF BIRTH 01 March 1989  
GENDER Male  
ADDRESS 1 Gwanak-ro, Gwanak-gu, BK Residence Halls, B321, 08826 Seoul, South Korea  
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## EDUCATION

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AUGUST 2018 PhD in PHYSICS  
University of Cincinnati  
GPA: 4.0/4.0

NOVEMBER 2013 Laurea Magistrale in Fisica (Master of Science in PHYSICS)  
University of Rome "La Sapienza"  
110/110 *summa cum laude* | Curriculum in theoretical physics

NOVEMBER 2011 Laurea Triennale in Fisica (Bachelor of Science in PHYSICS)  
University of Rome "La Sapienza"  
110/110 *summa cum laude*

## EXPERIENCE

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OCTOBER 2022 - CURRENT Research Fellow (Postdoc)  
Center for Theoretical Physics  
Seoul National University

SEPTEMBER 2018 - OCTOBER 2022 Postdoctoral Research Associate  
Amherst Center for Fundamental Interactions  
University of Massachusetts Amherst

### Teaching

INSTRUCTOR First year seminar on special relativity (2019),  
1st, 2nd year labs (MATHEMATICA) for majors (2015-18);

TEACHING ASSISTANT Recitations and labs for a variety of introductory physics courses (2013-15);

TUTOR Physics GRE exam for undergraduate students (2016),  
mathematics and physics for high school and college students (2013-16).

### Extracurricular

ORGANIZER ACFI workshop "Theoretical Tests of the Landscape" (2023),  
Summer school "Physical Mathematics of Quantum Field Theory" (2022),  
ACFI workshop "Theoretical Tests of the Swampland Conjecture" (2019);

PRESIDENT Physics Graduate Student Association, University of Cincinnati (2015-2018).

## AWARDS AND RECOGNITIONS

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MAY 2020	Recognition as CIRTl Associate;
FEBRUARY 2018	finalist for the Presidential Medal for Graduate Student Excellence award, Graduate School, University of Cincinnati;
FEBRUARY 2017	finalist for the Presidential Medal for Graduate Student Excellence award, Graduate School, University of Cincinnati;
MAY 2016	Mary J. Hanna Fellowship, Department of Physics, University of Cincinnati, support for the 2016-17 academic year;
MARCH 2016	University Research Council (URC) Graduate Student Fellowship, University of Cincinnati, support for Summer 2016.

## SELECTED TALKS AND PUBLICATIONS

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P. C. Argyres, M. Lotito, M. Weaver

*Vertex algebra of extended operators in 4d  $N=2$  superconformal field theories*

NOVEMBER 2022, submitted in JHEP (<http://arxiv.org/abs/2211.04410>)

MARCH 2023	Invited talk	Korea Institute for Advanced Study
FEBRUARY 2023	Invited talk	King's College London
FEBRUARY 2023	Invited talk	Queen Mary University of London
JUNE 2022	Invited talk	Durham University
JUNE 2022	Invited talk	Imperial College London

I. García Etxebarria, B. Heidenreich, M. Lotito, A. K. Sorout

*Deconfining  $N=2$  SCFTs, or the Art of Brane Bending*

NOVEMBER 2021, published in JHEP 03 (2022) 140

MAY 2022	Invited talk	Oxford University (online)
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P. C. Argyres, M. Lotito, Y. Lü, M. Martone

*Geometric constraints on the space of  $N=2$  SCFTs*

*I: physical constraints on relevant deformations*

MAY 2015, published in JHEP 02 (2018) 001

*II: Construction of special Kähler geometries and RG flows*

DECEMBER 2015, published in JHEP 02 (2018) 002

*III: enhanced Coulomb branches and central charges*

SEPTEMBER 2016, published in JHEP 02 (2018) 003

*Expanding the landscape of  $N=2$  rank 1 SCFTs*

FEBRUARY 2016, published in JHEP 05 (2016) 088

NOVEMBER 2017	Invited talk	Princeton University
OCTOBER 2017	Invited talk	University of California San Diego
OCTOBER 2017	Invited talk	California Institute of Technology

## SKILLS

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PROBABILITY & STATISTICS

MATHEMATICA, OFFICE SUITE, L<sup>A</sup>T<sub>E</sub>X (Advanced)

C, HTML (Good)

PYTHON, C++, GITHUB (Basic/Intermediate)

## LANGUAGES

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ITALIAN, ENGLISH, SPANISH (Fluent)

FRENCH, PORTUGUESE (Limited working proficiency)